IN THE CLAIMS

- Claim 1 (currently amended). Ceramic nanofiltration membrane for use in organic solvents, comprising consisting essentially a mesoporous ceramic membrane the pore surfaces of which are modified by treatment chemical bonding thereto of with a hydrophobing agent selected from the group consisting of silanes of the formula $R_1R_2R_3R_4Si$.
- Claim 2 (previously presented). Ceramic nanofiltration membrane according to Claim 1, wherein the mesoporous membrane has a pore size between 2 nm and 10 nm.
- Claim 3 (currently amended). Ceramic nanofiltration membrane according to claim 1, wherein the mesoporous ceramic membrane, prior to said modification, consists of a metal oxide.
- Claim 4 (cancelled).
- Claim 5 (currently amended). Ceramic nanofiltration membrane according to Claim ± 1 , wherein between one and three of the groups R₁-R₄ of said silanes, prior to said bonding, are hydrolyzable groups.
- Claim 6 (currently amended). Ceramic nanofiltration membrane according to Claim $\frac{1}{2}$, wherein between one and three of the groups R_1 - R_4 are nonhydrolyzable groups.
- Claim 7 (currently amended). Ceramic nanofiltration membrane according to Claim 6, wherein at least one of the nonhydrolyzable substituents groups is at last partially fluorinated.
- Claim 8 (currently amended). Method for production of the ceramic nanofiltration membrane of claim 1, which comprises modifying a ceramic mesoporous membrane by impregnating it with a hydrophobing agent selected from the group consisting of silanes of the formula

- R₁R₂R₃R₄Si, in the liquid phase <u>and reacting said impregnated</u> hydrophobing agent with said mesoporous ceramic membrane to chemically bond said hydrophobing agent to said mesoporous memebrane.
- Claim 9 (previously presented). Method according to Claim 8, wherein penetration of the hydrophobing agent is supported by a pressure difference between the front and back side of the membrane.
- Claim 10 (currently amended). Method for production of the ceramic nanofiltration membrane of claim 1, which comprises modifying a <u>ceramic</u> mesoporous membrane by impregnating it with a hydrophobing agent <u>selected from the group consisting of silanes of the formula R₁R₂R₃R₄Si, in the gas phase <u>and reacting said impregnated hydrophobing agent with said mesoporous ceramic membrane</u>.</u>
- Claim 11 (currently amended). Method according to claim 8 wherein, after treatment impregnation of with the hydrophobing agent, heat treatment between 100 and 400°C is applied.
- Claim 12 (**currently amended**). The ceramic nanofiltration membrane of claim 2, wherein said pore size is **between** 2 nm and 5 nm.
- Claim 13 (previously presented). The ceramic nanofiltration membrane of claim 3, wherein said metal oxide is selected from the group consisting of TiO₂, ZrO₂, Al₂O₃, SiO₂ and mixtures of two or more thereof.
- Claim 14 (previously presented). The ceramic nanofiltration membrane of claim 5, wherein one of the groups R₁-R₄ is a hydrolyzable group.
- Claim 15 (previously presented). The ceramic nanofiltration membrane of claim 5, wherein said hydrolyzable groups are selected from the group consisting of Cl, -OCH₃ or -O-CH₂-CH₃.

- Claim 16 (**currently amended**). The ceramic nanofiltration membrane of claim 14, wherein said hydrolyzable group is **er** selected from the group consisting of Cl, -OCH₃ or -O-CH₂-CH₃.
- Claim 17 (previously presented). The ceramic nanofiltration membrane of claim 6, wherein three of the groups R₁-R₄ are nonhydrolyzable groups.
- Claim 18 (previously presented) The ceramic nanofiltration membrane of claim 6, wherein said nonhydrolyzable groups are selected from the group consisting of alkyl groups and phenyl groups.
- Claim 19 (previously presented). The ceramic nanofiltration membrane of claim 17, wherein said nonhydrolyzable groups are selected from the group consisting of alkyl groups and phenyl groups.
- Claim 20 (previously presented). Method according to claim 10, wherein after **treatment reaction** with the hydrophobing agent, heat treatment between 100 and 400°C is applied.
- Claim 21 (previously presented). Method according to claim 20, wherein said heat treatment is between 150 and 300°C.
- Claim 22 (previously presented). Method according to claim 11, wherein said heat treatment is between 150 and 300°C.